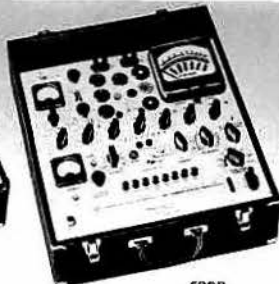


HICKOK

TEST EQUIPMENT FOR SERVICE, INDUSTRIAL AND LABORATORY USE



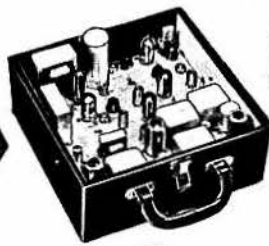
750



539B



123A



660



656XC



615

NEW MODEL 6000 TUBE TESTER

- Speedy Transconductance Readings
- 1-2-3 Push-Button Operation Saves Time
- New Socket-Plate Design

Dynamic mutual conductance tester. Features accurate, high-speed testing. Roll chart groups most commonly-used tubes separately—minimizes time-wasting searching! Constant line voltage indication for quick adjustment. All shorted elements indicated and identified at the same time without rotary switching. One-button grid current test measures gas content accurately in micro-amps. Filament continuity check made instantly before warm-up. Socket plate design permits plug-in socket replacement or change without re-wiring. 5" meter has 0-3000-6000-15,000 micromhos and "REPLACE—?—GOOD" ranges. 16 $\frac{3}{4}$ x 7 $\frac{1}{2}$ x 11 $\frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 21 lbs.

87 FZ 181. NET.....182.25

MODEL 6005 TUBE TESTER AND VOM. Same as above, but with built-in 20,000 ohm-per-volt multimeter. Shpg. wt., 22 lbs.

87 FZ 182. NET.....224.00

CRT TESTER ADAPTER. For use with all Hickok tube testers to test picture tubes. With cable, plug, and dual socket. Shpg. wt., 1 lb.

84 F 184. NET.....10.25



MODEL 600A TUBE TESTER

Dynamic mutual conductance type—checks tubes under simulated operating conditions. Tests all the latest tube types including min., sub-min., and 600 ma series heater types. Has these outstanding features: easily portable; tests for gas content; reads directly in micromhos; applies separate voltage to each element; easily detects hard-to-locate weak tubes. Predicts probable tube life. Easy-to-read triple-scale 5" lucite-case meter has ranges of 0-3000-6000-15,000 micromhos and "REPLACE—?—GOOD". Red leatherette-covered case. Size: 16 $\frac{3}{4}$ x 7 $\frac{1}{2}$ x 11 $\frac{1}{4}$ ". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 21 lbs.

84 FZ 185. NET.....166.00

MODEL 539B TUBE TESTER

Laboratory-type dynamic mutual conductance tube tester. Accurately measures mutual conductance under simulated operating conditions. Tests all receiving-type tubes, voltage regulators, selenium and germanium diodes.

Uses 3 meters. Micromhometer with 8 ranges; 60,000-30,000-15,000-6000-3000-600 micromhos; Rectifier Diode Range; Voltage Regulator Range. Separate AC meter for line voltage check and separate DC voltmeter for grid bias readings. Bias control has vernier adjustment. Choice of 4 AC signals (.25, .5, 1, 2.5 v.). Reads leakage up to 50 megohms. Permits tube matching; tests future life of tube, noise and gas content. Has choice of low or normal plate and screen volts. Black leatherette-covered portable case. Size: 16 $\frac{3}{4}$ x 18 $\frac{1}{2}$ x 7 $\frac{1}{2}$ ". For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 39 lbs.

84 FZ 608. NET.....392.95

MODEL 750 TUBE TESTER

Portable dynamic mutual conductance tester for accurately testing all types of radio and TV receiving tubes—including the 600 ma series-string types. Also checks ruggedized types used by airlines, hearing aid tubes and voltage regulator tubes—accurate DC voltmeter measures 0-200 volts; DC milliammeter, 0-200 ma. Permits matching of tubes such as 6SN7 for critical circuits. 5" meter reads 0-1500-3000-6000-15,000-30,000 micromhos—also 0-200 v. DC and 0-100 ma DC scales. Has two "Replace-Good" ranges. Tests for shorts, gas, noise, and gives probable tube life. Provides a choice of two plate and screen voltages and four AC signal voltages—as low as .25 volt. Leatherette-covered case. Size: 18 $\frac{3}{4}$ x 16 $\frac{3}{4}$ x 7 $\frac{1}{2}$ ". For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 24 lbs.

84 FZ 633. NET.....257.25

MODEL 660 DOT-BAR GENERATOR

New, portable white dot-bar color-display generator designed for "on-the-spot" adjustment of color TV receivers. All frequencies generated are crystal-controlled and locked together for extreme stability—reduces possibility of alignment error. Features switch selection of RF output up to .05 v. on TV channels 2 to 6. 300 white dots, less those in blanking; 20 vertical and 15 horizontal white crosshatch lines, less those in blanking. Color display pattern; crystal accurate in sequence of red, blue and green. RF modulated (60%) by all video outputs. Housed in sturdy, black leatherette, portable case. With 2 crystals, output cable and instructions. Size: 10 $\frac{1}{2}$ x 10 $\frac{1}{2}$ x 5 $\frac{1}{4}$ ". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

87 FZ 175. NET.....243.00

MODEL 123 AUTOMATIC TUBE TESTER

Automatic dynamic mutual conductance precision tester. Uses perforated vinyl cards which slide in easily to instantly trip automation circuit. One card sets up entire circuit for testing each function of tube—automatically, without roll charts. Ideal for fast, accurate laboratory or industrial use.

Features: Automatic short test; direct-reading leakage check; sensitive gas test; 0.22 v. rms grid signal variable voltages for each tube element. "Knee test" quickly evaluates tube's ability to perform in TV sweep circuit. 5" meter. With 500 cards covering all popular tube types and metal rack for easy filing. In ventilated, counter-type steel case. 16 $\frac{3}{4}$ x 18 $\frac{1}{2}$ x 7 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 51 lbs.

87 FZ 179. NET.....470.00

MODEL 123A. As above, but in portable case with filing rack. Shpg. wt., 56 lbs.

87 FZ 183. NET.....470.00

656XC TV COLOR BAR GENERATOR

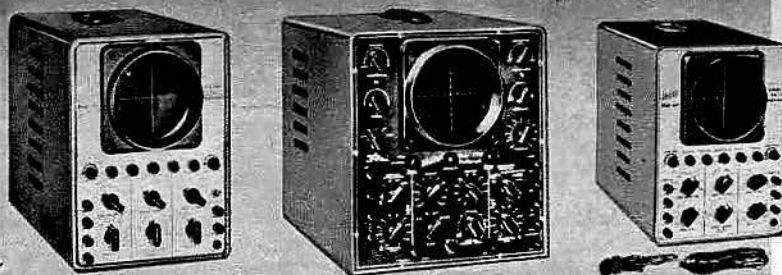
Highly accurate, white dot crosshatch and color bar generator, for color TV servicing. Supplies the same type of color signal that is transmitted over the air; a self-checking, standard 100% fully saturated NTSC color bar pattern. Crystal-controlled 3.58 mc color burst. Provides signals for demodulator alignment; I, Q, and R-Y and B-Y signals. Video output, 0-2 volts p-to-p open circuit. RF output, modulated with color bar pattern, on channels 2 to 6. Produces white dot crosshatch: 20 vertical and 15 horizontal, less those in blanking; 300 dots, less those in blanking; also provides vertical and horizontal lines. Sound carrier for setting local oscillator. Leatherette-covered carrying case. Size: 7 $\frac{1}{2}$ x 16 $\frac{3}{4}$ x 18 $\frac{1}{4}$ ". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 42 lbs.

87 FZ 176. NET.....495.00

615 SWEEP & MARKER GENERATOR

Combination sweep and marker generator for visual alignment of TV receivers. Continuous IF coverage from 0 to 50 mc. Fine tuning adjustment pinpoints frequency. Sweep width variable from 0 to 15 mc. Marker frequencies: 2.5 to 5.5 mc; 19 to 50 mc; 54 to 108 mc; all on fundamentals—108 to 216 mc on harmonics. Built-in 4.5-mc crystal provides dual markers for IF or RF alignment; and 4.5-mc signal for intercarrier sound alignment. 900-cycle internal modulator for both marker and crystal oscillators. Built-in retrace blanking panel-controlled for zero reference. External sweep variable phasing (170°) for use with scopes without variable phasing. Size: 13 $\frac{1}{4}$ x 16 $\frac{3}{4}$ x 8". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 39 lbs.

87 FZ 177. NET.....299.00



HICKOK

TEST EQUIPMENT QUALITY INSTRUMENTS



MODEL 675A WIDE-BAND SCOPE

Wide-band, high sensitivity, 5" oscilloscope for color TV as well as FM and AM use. Features 4.5-mc bandwidth and 20 rms mv/inch vertical sensitivity. Illuminated, calibrated screen with astigmatic focus provides exceptional trace detail. Vertical response within 3 db from 1 cps to 4.5 mc—flat through 3.58-mc color burst frequency. Excellent pulse response with a rise time of .08 microseconds. Switch for reversing polarity of vertical trace. Built-in voltage calibrator. Horizontal response within 3 db from 1 cps to 450 kc—sensitivity is 250 rms mv/inch. Sweep frequency, 10 cps to 100 kc. Has input for intensity modulation, 13x10x 16". For operation from 110-120 v., 50-400 cycle AC. Shpg. wt., 43 lbs.

84 FZ 634. NET.....278.25

NEW MODEL 685 INDUSTRIAL SCOPE

5" oscilloscope for industrial or laboratory use. DC or AC input. Illuminated, calibrated screen backed with green filter reduces incidental reflections for accurate measurements. Astigmatic focus control provides sharp, undistorted trace. Excellent pulse response with rise time of approx. 0.5 microseconds.

Vertical frequency response, 0 to 750 kc within 3 db. Sensitivity is 20 rms mv/inch. Input impedance, 1 megohm, 40 mmf. Horizontal amplifier response is within 3 db from 0 to 750 kc—sensitivity of 30 rms mv/inch. Sweep frequency, 1 cps to 100 kc in 5 calibrated ranges, with fine tuning vernier control of 10 to 1 ratio. Includes provision for even lower sweep frequencies with external capacitors (not supplied). Choice of recurring or triggered sweep functions; internal or external locking. Has input for intensity modulation. Size, 17½x 9½x13½". For 105-125 v., 50-400 cycle AC. Shpg. wt., 46 lbs.

87 FZ 184. NET.....345.00

MODEL 770 LABORATORY SCOPE

Wide-band, 5" oscilloscope for professional use including color TV servicing. Dual bandwidth for flat response and maximum sensitivity. **Wide band:** Frequency response 0 to 5 mc within 3 db; vertical sensitivity, 35 rms mv/inch. **Narrow band:** Frequency response, 0 to 2.5 mc, 3 db down; sensitivity, 10 rms mv/inch. Horizontal response—3 db from 0 to 500 kc—sensitivity, 75 rms mv/inch. Sweep frequency from 2 to 30,000 cps. 14x12x18". For operation from 110-120 v., 50-400 cycle AC. Shpg. wt., 60 lbs.

84 FZ 606. NET.....398.00

MODEL 34 DEMODULATOR PROBE. Extends RF range to 500 mc. Shpg. wt., 1½ lbs.

84 F 138. NET.....5.75

MODEL TYP-1 PROBE. Low impedance for reduced loading. Shpg. wt., 2 lbs.

84 F 162. NET.....11.50

NEW MODEL 760 VIDEO SCANNER

A complete cable-connected TV transmitting station. Instantly scans and produces a video or RF signal from slide. Extremely useful for TV servicing; can also be used by dealers for projecting information on TV sets in the store. Reproduces your own test patterns, pictures, messages, advertising displays, paging, etc., in any closed-circuit or community antenna TV system. Will operate any black-and-white or color TV receiver. Enables rapid frequency response analysis of picture definition capabilities.

RF output, 100,000 microvolts—enough to drive several receivers simultaneously. Video output, 2 volts peak-to-peak; choice of positive or negative output. Variable sync level; permits test of how well a TV receiver locks-in on high or low sync levels. Completely crystal controlled. Supplied with bar, dot, standard test pattern, and transparent blank slides. Size, 19½x17x 8½". For 105-125, 50-60 cycle AC. Shpg. wt., 50 lbs.

87 FZ 185. NET.....299.90

MODEL 415 VTVM

Compact vacuum tube voltmeter. Ideal for radio-TV servicing and industrial laboratory use. Features modern "laydown" design. Ranges: AC (rms) and DC volts, 0.1-5-15-50-150-500-1500. Zero center DC ranges for instant polarity identification. DC input impedance is 13.3 megohms. AC input capacity is 10 megohms shunted by 150 mmf.; frequency response, 50 cps to 2.5 mc. Ohmmeter is readable from 0.2 ohms to 2000 megohms. Resistance ranges: 0-2000-20,000-200,000 ohms and 0-2-200-2000 megohms. Center-scale reading, 10 ohms. With test leads. Requires no batteries. 3x5½x 8½". For 110-120 v., 50-60 cycle AC. Shpg. wt., 6 lbs.

87 FZ 178. NET.....82.00

MODEL 209A VTVM

- Light Loading—Only 7 mmf.
- Flat Response to 300 mc.
- Big, Zero-Center 9" Meter

Professional-quality VTVM and capacitance checker. Large, zero-center 9" meter. Flat response from 30 cps to 300 mc. Input impedance: DC, 12 megohms; AC, 12 megohms shunted by 7 mmf (3 megohms on 1200 v. scale). Ranges: AC-DC volts, 0.3-12-30-120-300-1200; DC current, 0.3-12-30-120-300-1200 ma; Resistance, .1 ohm to 10,000 megohms in 7 ranges; capacitance, 1 mmf. to 1000 mfd. in 7 ranges; inductance, 50 mh to 100 henries (with conversion chart provided); db, -20 to +25 in 3 ranges; AC peak-to-peak, 0.3-12-30-120-300. 13½x16½x7". With AC and DC probes, test leads. For 105-125 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

84 FZ 136. NET.....140.25

PR-30KVA PROBE. For above. Extends range to 30 KV DC. Shpg. wt., 1½ lbs.

84 F 149. NET.....14.35

MODEL 455 INDUSTRIAL VOM

Compact, portable VOM. Rugged design withstands hard use. Unique overload circuit cut-out and fuse system protects meter and components against burn-out on any function including ohms. Single switch selects function and range. Sensitivity: 20,000 ohms-per-volt AC-DC. Ranges: AC-DC v., 0.3-12-30-120-600-1200; resistances, 0 to 100 megohms in 4 ranges—5 ohms center scale; current, 0-50 ua, 0.1-10-100-1000 ma, 0-10 amps. 3x5½x8½". With test leads. Less batteries. Shpg. wt., 5½ lbs.

84 F 609. NET.....66.50

CARRYING CASE. Durable neoprene; houses Model 455 or 415 plus leads. ½ lb.

84 F 635. NET.....9.00

JERROLD

704B Portable VHF Field Strength Meter



Extremely versatile, portable VHF field strength meter. Useful for field intensity surveys, checking per cent of AM and FM modulation, locating and measuring noise and losses, testing antenna color response, calibrating signal generators, adjusting traps, and numerous other applications. Continuously tunable, 54-220 mc, ±1½ db accuracy. Sensitivity, 5 µv. Ranges: 0-300-1000-3000-10,000-30,000 µv RF; with built-in attenuator, measures 0.1-3-1.3 v. RF. Db meter scale and dbj scale on range switch for easy conversion to dbj (gain). Bandwidth, 600 kc at 3 db down. 12x12½x 8". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 24 lbs.

87 FZ 293. NET.....365.00